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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/597,763	06/20/2000	Kazuo Hata	2000 0776A	5987	
7590 10/21/2003			EXAMINER		
Wenderoth Lind & Ponack LLP Suite 800 2033 K Street NW			WATKINS III, WILLIAM P		
			ART UNIT	PAPER NUMBER	
Washington, DC 20006			1772	14	
			DATE MAILED: 10/21/2003	(10)	

Please find below and/or attached an Office communication concerning this application or proceeding.

				AS-(
	Appli	cation No.	Applicant(s)	•
Office Action Summary		97,763	HATA ET AL.	
		iner	Art Unit	
		m P. Watkins III	1772	 -
The MAILING DATE of this comp Period for Reply	nunication appears or	n the cover sheet with the	correspondence addre	ess
A SHORTENED STATUTORY PERIO THE MAILING DATE OF THIS COMM - Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this - If the period for reply specified above is less than th - If NO period for reply is specified above, the maximu - Failure to reply within the set or extended period for - Any reply received by the Office later than three more earned patent term adjustment. See 37 CFR 1.704(Status	UNICATION. sions of 37 CFR 1.136(a). In recommunication. rty (30) days, a reply within the material statutory period will apply a reply will, by statute, cause the this after the mailing date of the status of the	no event, however, may a reply be ti e statutory minimum of thirty (30) da and will expire SIX (6) MONTHS fror e application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this comm ED (35 U.S.C. § 133).	nunication.
1) Responsive to communication(s) filed on <u>28 July 200</u>	<u>)3</u> .		
2a) ☐ This action is FINAL .	2b)⊠ This actio	n is non-final.		
3) Since this application is in cond closed in accordance with the p Disposition of Claims	ition for allowance ex ractice under <i>Ex part</i>	cept for formal matters, per Quayle, 1935 C.D. 11,	prosecution as to the r 453 O.G. 213.	nerits is
4)⊠ Claim(s) <u>1-7</u> is/are pending in th	e application.			
4a) Of the above claim(s)	is/are withdrawn from	consideration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-7</u> is/are rejected.			•	
7) Claim(s) is/are objected to	ο.			
8) Claim(s) are subject to re	striction and/or election	on requirement.		
Application Papers				
9)☐ The specification is objected to by				
10)☐ The drawing(s) filed on is/a				
Applicant may not request that any				
11) ☐ The proposed drawing correction			oved by the Examiner.	
If approved, corrected drawings ar				
12)☐ The oath or declaration is objecte	d to by the Examiner	•		
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a c		y under 35 U.S.C. § 119(a)-(d) or (f).	
a)☐ All b)☐ Some * c)☐ None				
 Certified copies of the price 				
2. Certified copies of the price	•			
 3. Copies of the certified cop application from the In * See the attached detailed Office a 	ternational Bureau (F	PCT Rule 17.2(a)).		age
14) ☐ Acknowledgment is made of a cla	im for domestic priori	ty under 35 U.S.C. § 119	(e) (to a provisional ap	plication).
a) ☐ The translation of the foreign 15)☐ Acknowledgment is made of a cla				
Attachment(s)	·			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revie 3) Information Disclosure Statement(s) (PTO-144)		· ===	ry (PTO-413) Paper No(s). Patent Application (PTO-1	

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DETAILED ACTION

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 June 2003 has been entered.
- 2. The rejection over Takeuchi et al. has been withdrawn in view of applicant's arguments.
- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aikawa et al. (EP 0 704 413-A2).

Aikawa et al. teach a maximum surface roughness of a ceramic sheet of less than .8 microns, the ceramic being made of zirconia stablilized with yttrium and having a waviness of 20 microns, with the average particle size in the green sheet being .22 microns and most of the particles being below .7 microns in size, and the total thickness of the sheet being 200 microns (Example 1). Aluminum oxide may be added to the green sheet (Example 5) and the sheets may be used in fuel cells (page 3, lines 20-23). The instant invention claims a ceramic sheet with a burr height and dimple height less than 100 microns. It would have been obvious to one of ordinary skill in the art that a maximum surface roughness of less than .8 microns would limit burr and dimple heights to less than 100 microns because of the teachings of Aikawa et al. that a flat surface is desired (page 3, lines 37-38).

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P. Watkins III whose telephone number is 703-308-2420. The examiner works an increased flex time schedule, but can normally be reached Monday through Friday, 11:30 A.M. through 8:00 P.M. Eastern Time. The examiner returns all calls within one business day unless an extended absence is noted on his voice mail greeting.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 703-308-4251. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Willian B. Wether SIA

WW/ww October 18, 2003

WILLIAM P. WATKINS III PRIMARY EXAMINER